(FILE 'HOME' ENTERED AT 13:18:07 ON 14 AUG 1998)

FILE 'WPIDS' ENTERED AT 13:18:17 ON 14 AUG 1998
L1   6 S MACRO# (5A) (VIRUS? OR INFECT?)

FILE 'INSPEC' ENTERED AT 13:21:41 ON 14 AUG 1998
L2   30 S L1

FILE 'COMPUSCIENCE' ENTERED AT 13:33:01 ON 14 AUG 1998
L3   0 S L1

L1   ANSWER 1 OF 6   WPIDS   COPYRIGHT 1998 DERWENT INFORMATION LTD
AN   98-240301 [21]   WPIDS
DNN   N98-190046
TI   Virus detection method for removal of **viruses** in
      macros - in which file is targetted for virus detection
      according to configuration settings of **macro virus**
      detection module, and copied into data buffer for analysis.
DC   T01
IN   CHEN, E Y; CHI, L M; DENG, M M; RO, J T
PA   (TREN-N) TREND MICRO INC
CYC   24
PI   WO 9814872 A1 980409 (9821)* EN   50 pp   G06F011-00
          RW: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
          W: AU BR CA CN IL JP NO
ADT   WO 9814872 A1 WO 97-US16675 970929
PRAI US 96-724949   961002
IC   ICM G06F011-00
AB   WO 9814872 A   UPAB: 980528
      The method for detection and removal of **macros** involves
      using a **virus** detection module (206) which determines
      (302) whether a targeted file includes a macro, and where the macro
      is found, locates and decodes (302) it to produce a decoded macro.
      The decoded macro is accessed and scanned (304) to determine whether
      it contains any viruses.
          A macro treating module (310) locates suspect instructions in
      the decoded macro using comparison data for detecting unknown
      macro viruses, which are removed to produce a
      treated macro. A file correcting module (310) accesses a targeted
      file with an **infected macro** and replaces the
      infected macro with the treated **macro**
      produced by the treatment module (306).
          USE - Detection and removal of **viruses** which reside
      in **macros**.
      Dwg.3/9
FS   EPI
FA   AB; GI
MC   EPI: T01-J20D

L1   ANSWER 2 OF 6   WPIDS   COPYRIGHT 1998 DERWENT INFORMATION LTD
AN   98-180353 [17]   WPIDS
DNN   N98-142679
TI   Virus checking method for computer word processing application -
      deactivating execution of automatic instruction sequences associated
      with opened file, and detecting and examining instruction sequences
      at file operation.
DC   T01
IN   BENEDIKT, R
PA   (SIEI) SIEMENS AG
CYC   1
PI   DE 19638143 A1 980319 (9817)*   4 pp   G06F012-16
ADT   DE 19638143 A1 DE 96-19638143 960918
PRAI DE 96-19638143 960918

TI   **Macro virus** identification problems.
AU   Bontchev, V. (FRISK Software Internat., Reykjavik, Iceland)
AB   Computer **viruses** written in the **macro**
      programming language of the popular office applications like
      Microsoft Word have become extremely widespread. Unlike the MS-DOS
      viruses which are single entities, the **macro**
      viruses often consist of entire sets of several independent
      macros. This poses some interesting theoretical problems to the
      virus specific anti virus software that attempts to identify exactly
      the viruses it detects. Two viral sets of macros can have common
      subsets-or one of the sets could be a subset of the other. The paper
      deals with the problems caused by this, some of which are extremely
      difficult, if not impossible to solve. Emphasis is put on how the
      difficulties could be exploited by the virus writers and how the
      anti virus products should be improved in order to be made resistant
      to such attacks and to avoid damaging the user's documents when
      misidentifying the virus in it and attempting to remove the wrong
      virus variant.
CC   C6130S Data security; C6140D High level languages; C0310D Computer
      installation management; C6110 Systems analysis and programming
CT   COMPUTER VIRUSES; HIGH LEVEL LANGUAGES; MACROS; PROGRAMMING
ST   **macro virus identification problems**; computer viruses;
      macro programming language; office applications; Microsoft Word;
      independent macros; virus specific anti virus software; virus
      writers; anti virus products; virus variant

TI   Norman Virus Control v4.30 for Windows 95.
AU   Jackson, K.
AB   Norman Data Defense Systems alleges that the Norman Virus Control
      (NVC) virus scanner can now detect and remove all known
      macro viruses. It makes the same claim of its

memory-resident scanner. These are bold words, and **I** tried to test
the product aga**in** them. There are versions of NV**C** but this review
only covers version 4.30 for standalone Windows 95. NVC only missed
four samples of a single Excel virus and it detected all the other
macro viruses. However, some of the ways in which
NVC operates are, to put it mildly, quirky. The mode of operation is
not wrong or inferior, it just does things in ways that are not
initially clear. Once this is realized, NVC works very well, is very
capable of detecting viruses (polymorphic detection is outstanding
at 100%), and it scans quickly. It should prove to be a good buy.
CC   D1060 Security
CT   COMPUTER VIRUSES; GRAPHICAL USER INTERFACES; MICROCOMPUTER
      APPLICATIONS; PROGRAM TESTING; SOFTWARE REVIEWS; UTILITY PROGRAMS
ST   Norman Virus Control v4.30 for Windows 95; Norman Data Defense
      Systems; virus scanner; **macro viruses**; memory-resident
      viruses; software testing; Excel; quirkiness; polymorphic detection

L2   ANSWER 6 OF 30 INSPEC COPYRIGHT 1998 IEE
AN   98:5813799 INSPEC
TI   Inoculan AntiVirus v5.0 for Windows 95.
AU   Jackson, K.
SO   Virus Bulletin (Dec. 1997) p.13-16. 0 refs.
      Published by: Virus Bulletin
      Price: CCCC 0956-9979/97/$0.00+2.50
      CODEN: VBULE3 ISSN: 0956-9979
DT   Journal
TC   Practical; Product Review
CY   United Kingdom
LA   English
AB   Computer Associates claims its product is 'a full-featured Windows
      95 application that detects and removes viruses'. In other words a
      scanner, and both on-demand and memory-resident components are
      provided. Inoculan's packaging claims '100% protection, 100% cure
      against all **macro viruses**', and 'Automatic
      Protection Against **Virus** Attack GUARANTEED'. The latter
      claim is already dead in the water-nothing provides guaranteed
      protection against virus attacks. Anyone who claims that their
      product does is either lying or does not understand the problem.
CC   D1060 Security; D5000 Office automation - computing
CT   COMPUTER VIRUSES; INTEGRATED SOFTWARE; PROTECTION; SOFTWARE REVIEWS
ST   Computer Associates Inoculan AntiVirus v5.0 for Windows 95; virus
      removal; virus detection; scanner; memory-resident components;
      on-demand components; **macro viruses**; virus attack
      protection

L2   ANSWER 14 OF 30 INSPEC COPYRIGHT 1998 IEE
AN   97:5655531 INSPEC
TI   Into the valley of DOS [DOS scanner benchmarking].
AU   Crewe, P.
SO   Virus Bulletin (July 1997) p.8-17. 0 refs.
      Published by: Virus Bulletin
      Price: CCCC 0956-9979/97/$0.00+2.50
      CODEN: VBULE3 ISSN: 0956-9979
DT   Journal
TC   Practical; Product Review
CY   United Kingdom
LA   English
AB   The following virus scanner software packages are compared: Alwil
      AVAST!, Anywhere Antivirus, Cheyenne InocuLAN, Command F-PROT, Cybec

VET, Data Fellows F-PROT, DialogueScience DrWeb, Dr Solomons AVTK, EliaShim ViruSaf⬤ESaSS ThunderBYTE, H+BEDV AVE32⬤+BEDV AVSCAN, IBM Antivirus, Intel LANDesk, Iris antiVirus, KAMI AVP, Look Software Virus ALERT, Mcafee ViruScan, Norman Virus Control, SafetyNet VirusNet, Sophos SWEEP, Stiller Integrity Master, Symantec Norton AntiVirus, Trend PC-cilin.

CC   D1060 Security
CT   COMPUTER VIRUSES; SOFTWARE REVIEWS
ST   DOS scanner benchmarking; Sophos SWEEP; virus scanner software
      packages; Stiller Integrity Master; Alwil AVAST!; Symantec Norton
      AntiVirus; Anywhere Antivirus; Trend PC-cillin; Cheyenne InocuLAN;
      anti virus developments; Command F-PROT; command line scanner; Cybec
      VET; **macro viruses**; Data Fellows F-PROT; DialogueScience
      DrWeb; Dr. Solomons AVTK; EliaShim ViruSafe; ESaSS ThunderBYTE;
      H+BEDV AVE32B; H+BEDV AVSCAN; IBM Antivirus; Intel LANDesk,; Iris
      antiVirus; KAMI AVP; Look Software Virus ALERT; Mcafee ViruScan;
      Norman Virus Control; SafetyNet VirusNet

L2   ANSWER 17 OF 30   INSPEC   COPYRIGHT 1998 IEE
AN   97:5499923   INSPEC
TI   Virus ALERT.
AU   Jackson, K.
SO   Virus Bulletin (Jan. 1997) p.21-3. 0 refs.
      Published by: Virus Bulletin
      Price: CCCC 0956-9979/97/$0.00+2.50
      CODEN: VBULE3   ISSN: 0956-9979
DT   Journal
TC   Practical; Product Review
CY   United Kingdom
LA   English
AB   VirusALERT is a multifaceted package including a scanner,
      memory-resident anti-virus programs, disinfection features, and a
      disk recovery program. The author reviews its main components. The
      product was provided for review on four 1.44 MB floppy disks, two
      marked "**Virus** ALERT", one for **macro
      viruses**, and one marked "TESTER".
CC   D1060 Security
CT   COMPUTER VIRUSES; SOFTWARE REVIEWS; SYSTEM RECOVERY
ST   Virus ALERT; multifaceted software package; virus scanner;
      memory-resident anti-virus programs; computer virus disinfection
      features; disk recovery program; floppy disks; **macro viruses**
      ; TESTER; 1.44 MB
PHP   memory size 1.51E+06 Byte

L2   ANSWER 25 OF 30   INSPEC   COPYRIGHT 1998 IEE
AN   96:5238813   INSPEC
TI   PC pesticides [Windows 95 anti-virus software].
AU   Howlett, D.
SO   What Personal Computer (April 1996) no.81, p.124-6. 0 refs.
      Published by: EMAP Computing
      CODEN: WPCMFQ   ISSN: 0956-5248
      SICI: 0956-5248(199604)81L.124:PWAV;1-T
DT   Journal
TC   Practical; Product Review
CY   United Kingdom
LA   English
AB   Find out how to protect your PC against the 7000 known computer
      viruses with the latest Windows 95 ready software.
CC   D5000 Office automation - computing; D1060 Security

CT   COMPUTER VIRUSES, SOFTWARE REVIEWS

ST   Windows 95 anti-virus software; PC pesticides; computer viruses; bug
      program; Trojan horse; Cyberspace; Word for Windows; **macro
      viruses**; Green Stripe; Boza; software packages; Sweep; Sophos;
      Norton Anti-Virus 95; configuration option; Dr Solomon's; McAfee
      Virus Scan; SMEG virus; VirusScan

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IC    ICM   G06F012-16
      ICS   G06F011-28;   5F017-21
AB    DE19638143 A    UPAB: 980428
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The method includes the steps starting a data processing application
and deactivating an execution of automatic instruction sequences
which may be associated with the file. A check or a query on the
existence of such associated instruction sequences is performed at a
file operation.

At detecting such sequence, a message is generated, which
requests the execution of an instruction fro processing the detected
instruction sequence. The instruction sequence is processed, and
depended on the result of the processing, the sequence may be
deleted or executed by removing the deactivation.

USE - Esp. for detecting **macro-virus** in
word editor, e.g. Winword, Excel, Windows applications.

ADVANTAGE - Improves protection against **viruses**
implemented as word-processor **macros**.

Dwg.0/0

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FS    EPI
FA    AB
MC    EPI: T01-J20D
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d his
        (FILE 'USPAT' ENTERED AT 13:12:03 ON 14 AUG 1998)
L1          3 S (MACRO (3A) VIRUS##)
L2          0 S MACROVIRUS##
L3          3 S MACRO# (3A) VIRUS?
L4         59 S MACRO# (5A) (INFECT? OR AFFECT?)
L5          3 S L4 AND VIRUS?
L6         15 S L4 AND 395/CLAS
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